

Coil-type slide fastenerPatent Number: EP1005803, A3

Publication date: 2000-06-07

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Requested Patent: JP2000197508

Application Number: EP19990120049 19991019

Priority Number(s): JP19980309790 19981030; JP19990183292 19990629

IPC Classification: A44B19/12

EC Classification: A44B19/12

Equivalents: CN1279920, KR2000029374, US6314623Cited Documents: US3456306; US5596793; US3665879

Abstract

A core cord (3) is inserted into coil-shaped fastener elements (1) made of thermoplastic resin, and the fastener elements (1) are sewn onto a fastener tape (2) by multi-thread chain stitch. Yarn mainly made of thermally meltable synthetic fiber is used for looper thread (5) of multi-thread chain stitch, while yarn of fiber which is not or less meltable is used for needle thread (4). Entangling points (6) of the looper thread (5) and the needle thread (4) are disposed on the core cord (3). The looper thread (5) is thermally melted to form melted portions (8) where the looper thread (5) and the needle thread (4) entangle with each other at the entangling points (6). As a result, melted portions (7) which have become monofilaments are formed on the fastener elements (1) or no sewing yarn is on the fastener element (1) due to thermal melting. Thus, there is no fear of cutting of the sewing yarn due to sliding of a slider and the slide fastener is abrasive resistant. The coil-shaped fastener elements (1) is firmly attached to the fastener tape (2) by using such thermally

meltable looper thread (5). 

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